## **Appendix E — MOA**



## Minute of Angle (or Minute of Arc)

It will be necessary to know the value of each "click" of your sight adjustment. Most sights use either:

1/8 MOA per click 1/2 MOA per click 1/4 MOA per click 1 MOA per click

Use the adjacent tables, for scopes and aperture sights to determine correct adjustments at various given target distances.

- A) The number of clicks needed to move the impact one inch
- B) The amount of change, in inches, for each click;
- C) The area a red dot or reflex sight masks at a given distance
- D) Converts the physical distance off target center, in inches, to the MOA at a given yardage

## Using Our MOA Correction Sight-In Target

You can use this table information in conjunction with "**FIREARM FUNDAMENTAL**'S Copyrighted *MOA Correction* sight-in target.

To use the *MOA Correction* sight-in target, set the target any distance from 25 yards to 1,000 yards from your shooting bench.

After a three or five round volley, measure the distance between the bullet impact and the center of the target.

The table will convert the distance off target center, in inches, to the relative MOA for that distance. The adjacent table will then convert the resulting MOA into the number of clicks needed, for your sight, to impact the target center.

(Also see "Appendix F — MOA Correction Target" on page 291)

Our *MOA Correction* sight-in target and complete instructions are available FREE from our web site:

		The N	umber	of Click	s Redu	The Number of Clicks Required to Move the Impact One Inch	Nove the	Impact	One In	ch			
# Clicks @ 10 yds 25 yds 50 yds 100 yds 200 yds 300 yds 400 yds 500 yds 600 yds 700 yds 800 yds 900 yds 1,000 y	10 yds	25 yds	50 yds	100 yds	200 yds	300 yds	400 yds	500 yds	600 yds	700 yds	800 yds	900 yds	1,000 y
1/8 MOA	1/8 MOA 80 clicks 32 clicks 16 clicks 8 clicks 4 clicks 2.7 clicks 2 clicks 1.6 clicks 1.3 clicks 1.1 clicks 1 clicks 9 clicks 9 clicks 1.3 clicks 1.1 clicks 9 clicks 9 clicks 1.3 clicks 1.1 clicks 1 c	32 clicks	16 clicks	8 clicks	4 clicks	2.7 clicks	2 clicks	1.6 clicks	1.3 clicks	1.1 clicks	1 clicks	.9 clicks	.8 clic
1/4 MOA	40 clicks 16 clicks 8 clicks 4 clicks 2 clicks 1.3 clicks 1 clicks .8 clicks .5 clicks .5 clicks .4 clicks	16 clicks	8 clicks	4 clicks	2 clicks	1.3 clicks	1 clicks	.8 clicks	.7 clicks	.6 clicks	.5 clicks	.4 clicks	.4 clic
1/2 MOA	1/2 MOA 20 clicks 8 clicks 4 clicks 2 clicks 1 clicks 7 clicks .7 clicks .5 clicks .4 clicks .3 clicks .3 clicks .3 clicks .3 clicks .2 clicks .2 clicks .2 clicks	8 clicks	4 clicks	2 clicks	1 clicks	.7 clicks	.5 clicks	.4 clicks	.3 clicks	.3 clicks	.3 clicks	.2 clicks	.2 clic
* ( ) * *	4 MOA 40 minter 4 minter 4 minter 9 minter 9 minter 9 minter 4 minter 6 minter 8 min	A clinks	o district		orleile 2	o oliolo				-	-	-11-11-19	-

		)			56000		, , , , ,		))	::			
# Clicks @	10 yds	25 yds	25 yds 50 yds 100 yds 200 yds	100 yds	200 yds	300 yds	400 yds	500 yds	600 yds 700 yds	700 yds	800 yds 900 yds 1,000 yds	900 yds	1,000 yds
1/8 MOA	80 clicks	32 clicks	16 clicks	8 clicks	4 clicks	cks 32 clicks 16 clicks 8 clicks 4 clicks 2.7 clicks	2 clicks	2 clicks 1.6 clicks 1.3 clicks	1.3 clicks	1.1 clicks	1 clicks	.9 clicks	.8 clicks
1/4 MOA	40 clicks	16 clicks	cks 16 clicks 8 clicks 4 clicks 2 clicks 1.3 clicks	4 clicks	2 clicks	1.3 clicks	1 clicks .8 clicks	.8 clicks	.7 clicks	.6 clicks	.5 clicks	.4 clicks	.4 clicks
1/2 MOA	20 clicks	8 clicks	8 clicks 4 clicks	2 clicks	1 clicks	.7 clicks	.5 clicks	.4 clicks	.3 clicks	.3 clicks	.3 clicks	.2 clicks	.2 clicks
1 MOA	10 clicks	4 clicks	2 clicks 1 clicks		.5 clicks	.3 clicks	.3 clicks	.2 clicks	.2 clicks	.1 clicks	.1 clicks	.1 clicks	.1 clicks

			The Arr	onut o	f Chan	The Amount of Change for Each Click, in Inches	ach Clic	k, in Inc	hes				
One Click =	10 yds	25 yds	50 yds	100 yds	200 yds	yds 25 yds 50 yds 100 yds 200 yds 300 yds 400 yds	400 yds	500 yds	500 yds 600 yds	700 yds	800 yds	900 yds	900 yds 1,000 yds
1/8 MOA	.01 in	.03 in	.06 in	.125 in	.25 in	.375 in	.50 in	.625 in	.75 in	.875 in	1 in	1.125 in	1.25 in
1/4 MOA	.03 in	.06 in	.125 in	.25 in	.50 in	.75 in	1 in	1.25 in	1.50 in	1.75 in	2 in	2.25 in	2.50 in
1/2 MOA	.05 in	.125 in	.25 in	.50 in	1 in	1.50 in	2 in	2.50 in	3 in	3.50 in	4 in	4.50 in	5 in
1 MOA	.10 in	.25 in	.50 in	1 in	2 in	3 in	4 in	5 in	e in	7 in	8 in	9 in	10 in

			Refle	(Dot)	Sight 1	arget Cα	overage	Reflex (Dot) Sight Target Coverage, in Inches	es				
Dot Size	10 yds	25 yds	50 yds	50 yds 100 yds 200 yds	200 yds	300 yds	400 yds	500 yds	600 yds	700 yds	800 yds	900 yds	900 yds 1,000 yds
2 MOA	.20 in	.50 in	1 in	2 in	4 in	6 in	8 in	10 in	12 in	14 in	16 in	18 in	20 in
3 MOA	.30 in	.75 in	1.50 in	3 in			12 in		18 in	21 in	24 in	27 in	30 in
4 MOA	.40 in	1 in	2 in	4 in	8 in	12 in	16 in	20 in	24 in	28 in	32 in	36 in	40 in
5 MOA	.50 in	1.25 in	2.50 in	5 in	10 in		20 in	25 in	30 in	35 in	40 in	45 in	50 in
6 MOA	.60 in	1.50 in	3 in	e in	12 in	18 in	24 in	30 in	36 in	42 in	48 in	54 in	60 in
7 MOA	.70 in	1.75 in	3.50 in	7 in	14 in	21 in	28 in	35 in	42 in	49 in	56 in	63 in	70 in
8 MOA	.80 in	2 in	4 in	8 in	16 in	24 in	32 in	40 in	48 in	56 in	64 in	72 in	80 in

			בֿ	e Distal	nce Ott	The Distance Off Center Impact, in MOA	Impact,	IN MOA					
Off Center	10 yds	25 yds	50 yds	100 yds	100 yds 200 yds	300 yds	400 yds	500 yds	600 yds	700 yds	800 yds	900 yds	1,000 yds
1/8 Inch	1.25 MOA	.50 MOA	.25 MOA	.13 MOA	.06 MOA	.04 MOA	.03 MOA	.03 MOA	.02 MOA	.02 MOA	.02 MOA	.01 MOA	.01 MOA
1/4 Inch	2.50 MOA	2.50 MOA 1.00 MOA	.50 MOA	.25 MOA	.13 MOA	.08 MOA	.06 MOA	.05 MOA	.04 MOA	.04 MOA	.03 MOA	.03 MOA	.03 MOA
1/2 Inch	5.00 MOA	2.00 MOA	1.00 MOA	.50 MOA	.25 MOA	.17 MOA	.13 MOA	.10 MOA	AOM 80.	.07 MOA	.06 MOA	.06 MOA	.05 MOA
3/4 Inch	7.50 MOA	7.50 MOA 3.00 MOA	1.50 MOA	.75 MOA	.38 MOA	.25 MOA	.19 MOA	.15 MOA	.13 MOA	.11 MOA	40M 90.	.08 MOA	.08 MOA
1 Inch	10.00 MOA	10.00 MOA 4.00 MOA	2.00 MOA	1.00 MOA	.50 MOA	.33 MOA	.25 MOA	.20 MOA	.17 MOA	.14 MOA	.13 MOA	.11 MOA	.10 MOA
2 Inch	20.00 MOA	20.00 MOA 8.00 MOA	4.00 MOA	2.00 MOA	1.00 MOA	.67 MOA	.50 MOA	.40 MOA	.33 MOA	.29 MOA	.25 MOA	.22 MOA	.20 MOA
3 Inch	30.00 MOA	30.00 MOA 12.00 MOA	6.00 MOA	3.00 MOA	1.50 MOA	1.00 MOA	.75 MOA	.60 MOA	.50 MOA	.43 MOA	.38 MOA	.33 MOA	.30 MOA
4 Inch	40.00 MOA	0.00 MOA 16.00 MOA	8.00 MOA	4.00 MOA	2.00 MOA	1.33 MOA	1.00 MOA	.80 MOA	.67 MOA	.57 MOA	.50 MOA	.44 MOA	.40 MOA
5 Inch	50.00 MOA	20.00 MOA	20.00 MOA 10.00 MOA	5.00 MOA	2.50 MOA	1.67 MOA	1.25 MOA	1.00 MOA	.83 MOA	.71 MOA	.63 MOA	.56 MOA	.50 MOA
6 Inch	60.00 MOA	24.00 MOA	60.00 MOA 24.00 MOA 12.00 MOA 6.00 MOA 3.00 MOA	6.00 MOA	3.00 MOA	2.00 MOA	1.50 MOA	1.20 MOA	1.00 MOA	.86 MOA	.75 MOA	.67 MOA	.60 MOA